## Detection of Desmin in Formalin-Fixed, Paraffin Embedded Rat Tissue

## **Reagents:**

1X Automation Buffer
3% Hydrogen Peroxide
Antibody Diluent
DAB Chromagen
Hematoxylin

## **Antibody Information:**

Kit: Vector Rabbit Elite Kit Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666

Catalog: PK-6101

\*The Vector Rabbit Elite Kit contains solutions needed to make the secondary and label antibodies.

Blocking Serum: Normal Goat Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog #005-000-001

Avidin Biotin Blocking Kit Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog #SP-2001

Primary Antibody: Rabbit anti-desmin Accurate Chemical & Scientific Corp. Westbury, NY 11590 (516) 333-2221 www.accuratechem.com Catalog #YMPS31 Negative control serum: Normal Rabbit Serum Jackson Immunoresearch Laboratories, Inc. West Grove, PA 19390 www.jacksonimmuno.com 1-800-367-5296 Catalog #011-000-001

## **Staining Procedure**

Positive Control Tissue: Smooth and striated muscle cells of the heart

Stain localization: Cytoplasmic

Deparaffinize and hydrate slides through the following solutions.

Xylene	2 times	5 minutes
100% Ethanol	2 times	3 minutes
95% Ethanol	2 times	3 minutes
1X Automation Buffer	2 times	5 minutes

- 1. Quench endogenous peroxidase by placing slides in 3% hydrogen peroxide for 15 minutes.
- 2. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.

3. Unmasking Techniques using the microwave oven.	
Place a full rack of slides in tissue tekô container containing 200ml of distilled war	ter
Microwave for 5 minutes at level 5	
Cool for 1 minute (Add more distilled water if necessary)	
Microwave for 5 minutes at level 5. Temp after Microwaving	
Cool 20 minutes at room temperature.	

- 4. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.
- 5. Block with 5% Normal Goat Serum for 20 minutes at room temperature. Lot #\_\_\_\_\_\_ Reconstituted Date\_\_\_\_\_\_
  6. Apply Avidin/Biotin block
   Lot#\_\_\_\_\_\_ Exp. Date \_\_\_\_\_\_ New Kit: yes / no Apply avidin block 15 minutes at room temperature.
   Quick rinse in 1X AB.
   Apply biotin block 15 minutes at room temperature.
   Wipe excess block.

7. Apply temper		Desmin) at 1	1:500 diluti	on and incubate f	for one hour at room
		_Exp date_			
serum	he 1:500 dilution. A	centration of Apply to slice	of the prima des and inc	ary antibody (Des ubate for one hou	smin) and use this to r at room
8. Rinse s	lides in 2 changes of	of 1X Autor	nation Buff	fer for 5 minutes	each.
	secondary antibody te				mperature.
10. Rinse	slides in 2 changes	of 1X Auto	omation Bu	ffer for 5 minutes	s each.
	Label antibody and Label antibody and Label antibody and least 30 minut			tes at room tempe	erature.
12. Rinse	slides in 2 changes	of 1X Auto	omation Bu	ffer for 5 minutes	s each.
(Add	liquid Dako DAB 1 drop of DAB per Ex	ml of subst	rate)		yes / no
14. Rinse	in tap water 3 minu	ites.			
15. Count	erstain with Modifi	ed Harris H	Iematoxylir	n for 20 seconds.	
16. Rinse	in tap water until w	ater is clear	r.		
17. Gently	y agitate slides in 12	X Automati	on Buffer u	ıntil blue.	
18. Dehyo	drate through the fo	llowing sol	utions.		
	95% Ethanol	1 change	3 minutes		
	100% Ethanol	3 changes	3 minutes		
	Xylene	2 changes	5 minutes		

19. Coverslip

Updated 08/24/06